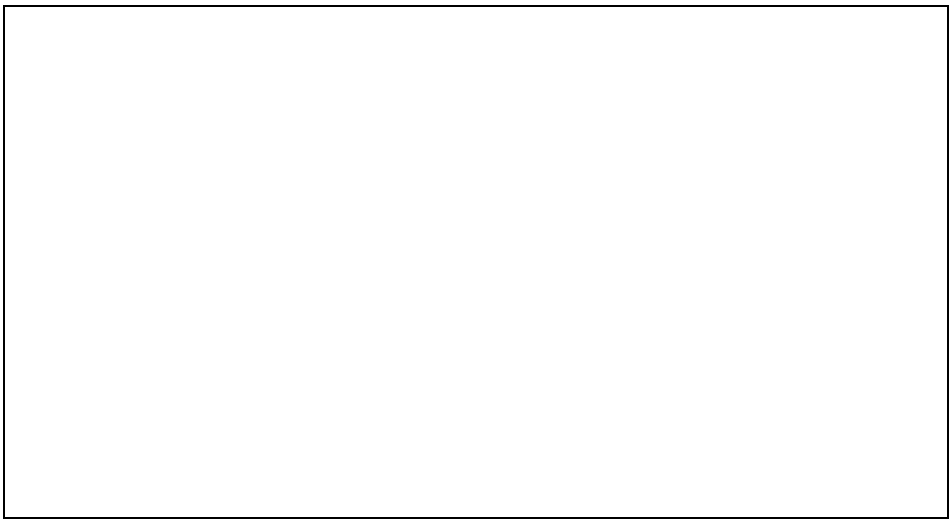
AQUASNAP™

30RA 010-055
AIR-COOLED CHILLERS

— PERFORMANCE DATA
— CERTIFIED DIMENSION PRINTS
— FIELD WIRING DIAGRAMS
— PUMP CURVES



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Form 30RA-1SB Replaces: New Printed in U.S.A. 701 4-01 Catalog No. 513-475

Date:	Supersedes:	AquaSnap™ 30RA010,015,018,022,025,030,032,035,040, 042,045,050,055 AIR-COOLED CHILLERS	30RA	Rev:
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

These air-cooled packaged chillers are factory piped, wired, and charged with Refrigerant 22. Weatherproof construction, light weight distribution, and low silhouette make them ideal for rooftop or ground level installation. Upward discharge airflow minimizes directional sound and carries heat away from surrounding areas.

FEATURES

The unit's scroll compressor(s) is maintenance-free and protected by an auto-adaptive control that minimizes compressor wear. Units 34 tons and up have two independent refrigerant circuits.

Cabinet constructed of galvanized steel, zinc phosphatized, with an electrostatically applied high solids, polyester baked-enamel finish, with hinged access panels.

Nonferrous condenser coils with mechanically bonded plate fins and subcooling circuit (copper fins optional).

AeroAcoustic™ condenser fans minimize sound levels.

Specially designed direct-drive condenser-fan motors, permanently lubricated and inherently protected.

→ Integral brazed plate heat exchangers with $^3/_4$-in. cooler insulation and optional thermostatically controlled electric heater cable. Refrigerant expansion and solenoid valves.

Microprocessor based leaving temperature control with return temperature compensation. Loss of charge protection, and Time Guard® compressor cycling protection also included.

Automatic circuit lead/lag for dual circuit chillers.

Seven-day time schedule.

Chilled water pump start/stop control and primary/stand-by sequencing to ensure equal pump run time.

Dual chiller control for parallel chiller applications without addition of hardware modules, control panels, thermometer wells.

Unoccupied low sound operation to limit condenser fan sound during scheduled periods.

Predictive maintenance scheduling to signal maintenance activities for pumps, condenser coil cleaning, strainer maintenance and user-defined maintenance activities.

Boiler enable signal to initiate system heating mode.

Low ambient protection to energize cooler and hydronic system heaters.

Periodic pump start to ensure pump seals are properly maintained during off-season periods.

External and internal compressor and fan motor protection.

Discharge gas thermostat, and hot gas muffler.

High- and low-pressure safety switches.

Low- and high-side fusible plugs.

Moisture indicating sight glass.

Filter drier.

Intermediate season head pressure control.

Rigging holes.

Standard one-year warranty.

Winter start control.

Unit capable of starting with up to 95° F water entering the cooler.

PERFORMANCE DATA

UNIT

Capacity _____Tons

Compressor Power Input _____kW

Unit Power Input _____kW

Minimum Outdoor Operating Temp _____°F

Capacity Control Steps_____ , Minimum Capacity_____%

Refrigerant _____

Condenser Entering Air Temp _____°F

COOLER

Entering Water Temp _____ °F

Leaving Water Temp _____ °F

Chilled Water Flow_____ Gpm

Chilled Water Pressure Drop _____ft. wg

Fouling Factor _____

Fluid _____

ELECTRICAL DATA

Power Supply to Unit_____volts _____ ph _____ Hz

Power Supply to Control Circuit ___volts _____ ph _____ Hz

Minimum Circuit Amps_____

Maximum Fuse Amps _____

Control Circuit Fuse Amperes _____

ACCESSORIES

☐ _____

☐ _____

☐ _____

☐ _____

☐ _____

☐ _____

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

NOTES:
1. UNIT MUST HAVE CLEARANCES FOR AIRFLOW AS FOLLOWS:
   TOP-DO NOT RESTRICT IN ANY WAY
   COIL SIDE- 3 1/2 FT.[1067mm] FROM SOLID SURFACE
   SIDE, ENDS-3FT.[914mm] FROM SOLID SURFACE (FOR SERVICE ACCESS)
2. COIL SIDE CLEARANCE WITH ACCESSORY HAIL GUARD INSTALLED IS 3 FT.[914mm] TO OUTSIDE EDGE OF HAIL GUARD TOP PANEL.
3. COILSIDE CLEARANCE FOR MULTIPLE CHILLER INSTALLATION IS 6 FT.[1981mm].
4. FLOW SWITCH AND STRAINER ARE FACTORY INSTALLED IN ENTERING FLUID PIPING.

UNITED TECHNOLOGIES CARRIER P.O. BOX 4808 SYRACUSE, NY 13221

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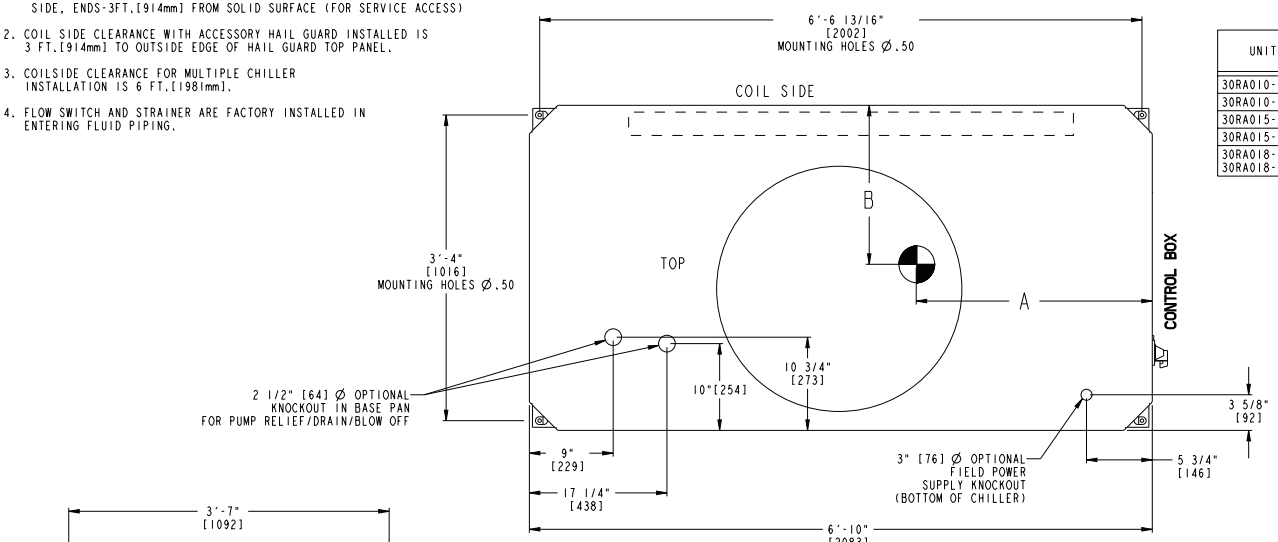

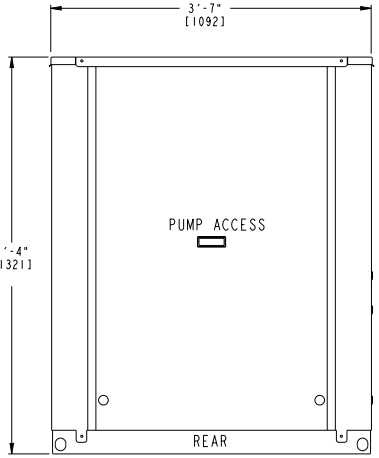

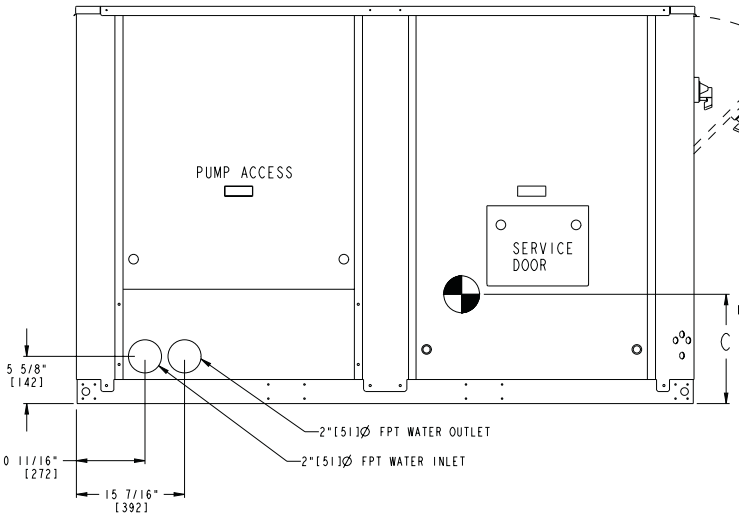

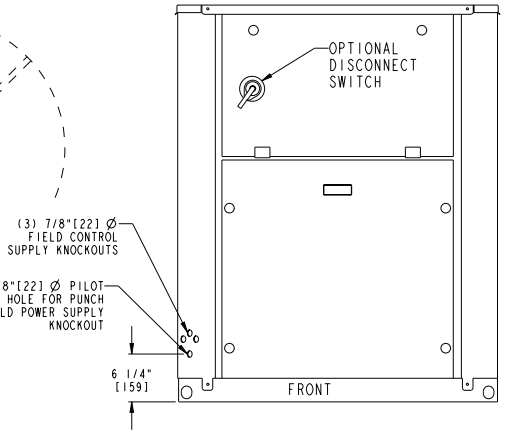

UNIT	DIM. A	DIM. B	DIM. C	TOTAL OPERATING WEIGHT - AL. FIN		TOTAL OPERATING WEIGHT - CU. FIN	
				LBS.	KG.	LBS.	KG.
30RA010-60Hz	33.75 [857]	22.00 [559]	21.00 [533]	945	428	1024	464
30RA010-50Hz	33.75 [857]	22.00 [559]	21.00 [533]	975	442	1056	479
30RA015-60Hz	34.00 [864]	21.50 [546]	21.00 [533]	1066	483	1197	543
30RA015-50Hz	29.75 [756]	17.87 [454]	21.00 [533]	1190	540	1321	599
30RA018-60Hz 30RA018-50Hz	32.12 [816]	20.12 [511]	21.00 [533]	1205	547	1334	605

DATE	SUPERCEDES			REV
03/26/01	3/12/01	30RA010,015,018 AQUASNAP CHILLER	30RA500279	3.0

CERTIFIED DIMENSION PRINT

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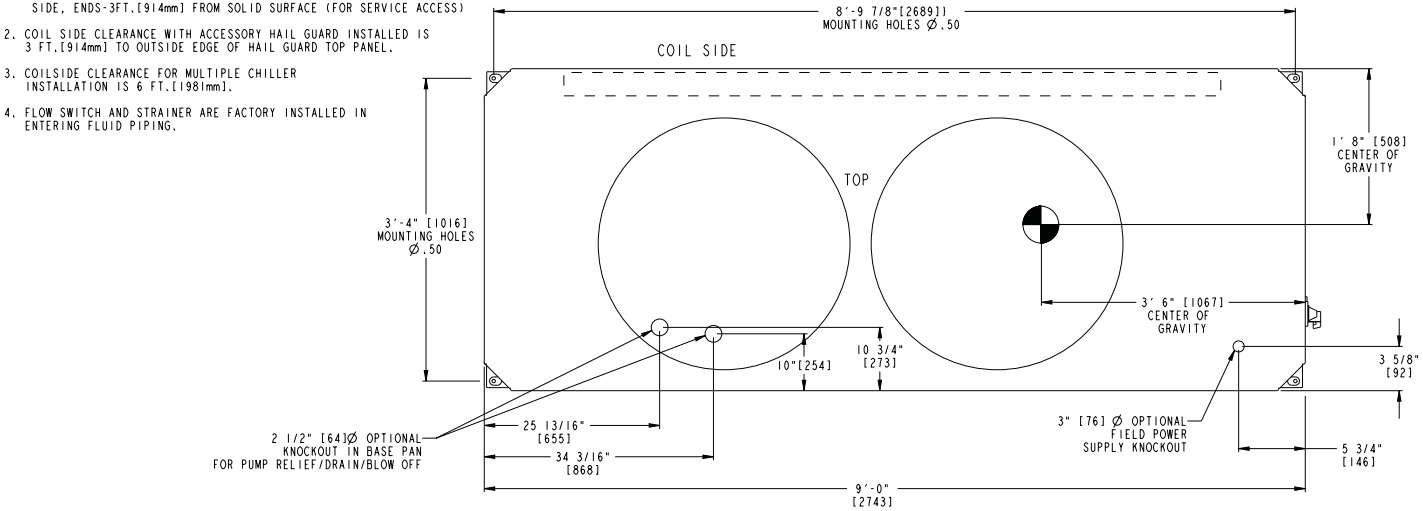
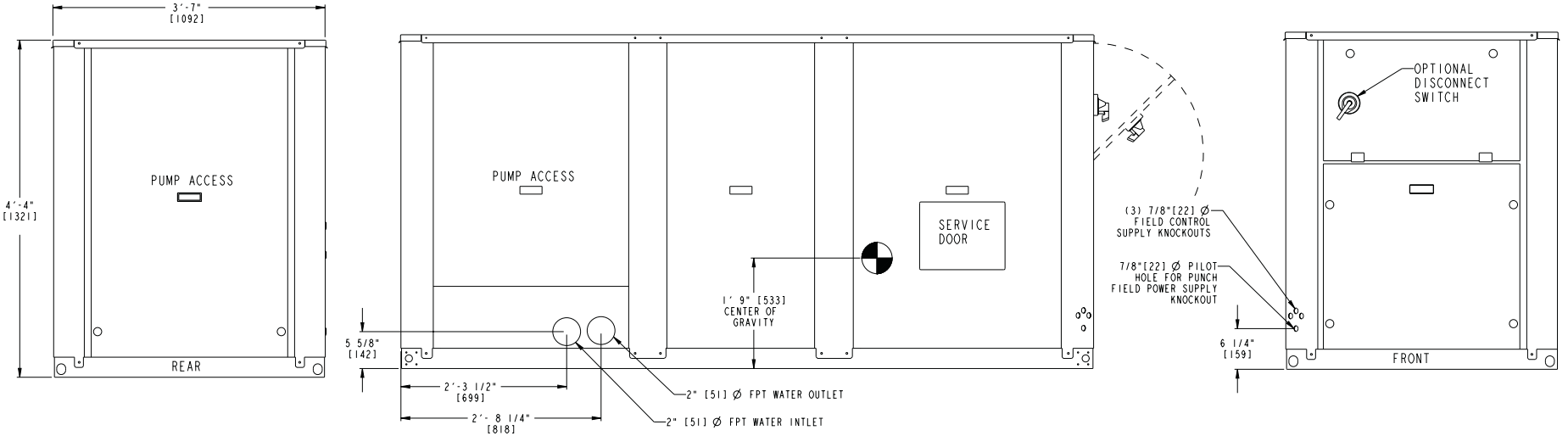


UNIT	TOTAL OPERATING WEIGHT - AL. FIN		TOTAL OPERATING WEIGHT - CU. FIN	
	LBS.	KG.	LBS.	KG.
30RA022-60Hz	1519	689	1709	775
30RA022-50Hz	1551	703	1740	789
30RA025-60Hz	1584	718	1775	805
30RA025-50Hz	1625	737	1815	823



DATE	SUPERCEDES			REV
03/26/01	3/12/01	30RA022,025 AQUASNAP CHILLER	30RA500280	3.0

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT

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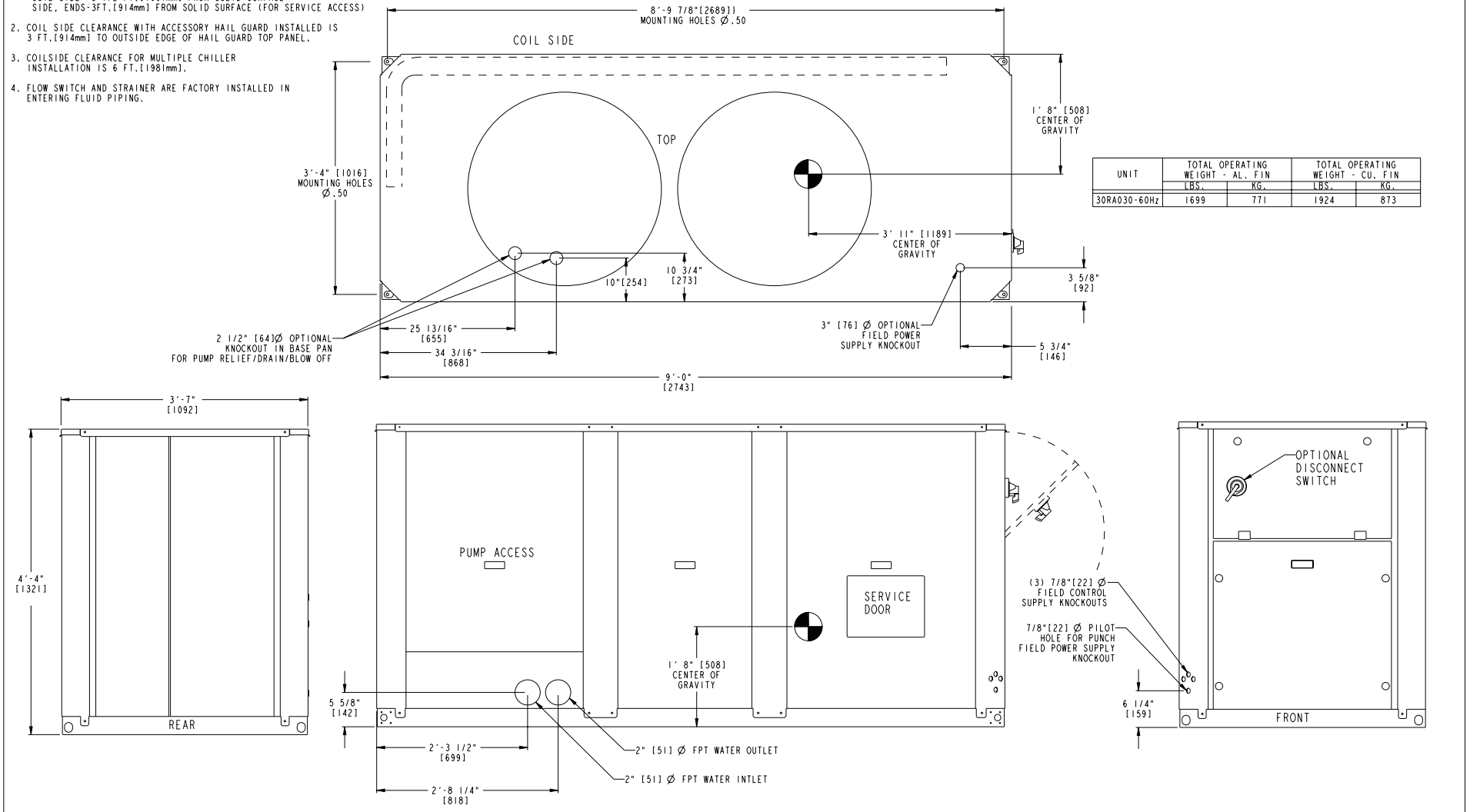
8'-9 7/8"[2689]) MOUNTING HOLES Ø.50
COIL SIDE
TOP
3'-4" [1016] MOUNTING HOLES Ø.50
1' 8" [508] CENTER OF GRAVITY
3' 11" [1189] CENTER OF GRAVITY
10"[254]
10 3/4" [273]
3 5/8" [92]
2 1/2" [64]Ø OPTIONAL KNOCKOUT IN BASE PAN FOR PUMP RELIEF/DRAIN/BLOW OFF
25 13/16" [655]
34 3/16" [868]
3" [76] Ø OPTIONAL FIELD POWER SUPPLY KNOCKOUT
5 3/4" [146]
9'-0" [2743]
3'-7" [1092]
4'-4" [1321]
REAR
PUMP ACCESS
SERVICE DOOR
1' 8" [508] CENTER OF GRAVITY
5 5/8" [142]
2'-3 1/2" [699]
2'-8 1/4" [818]
2" [51] Ø FPT WATER OUTLET
2" [51] Ø FPT WATER INTLET
OPTIONAL DISCONNECT SWITCH
(3) 7/8"[22] Ø FIELD CONTROL SUPPLY KNOCKOUTS
7/8"[22] Ø PILOT HOLE FOR PUNCH FIELD POWER SUPPLY KNOCKOUT
6 1/4" [159]
FRONT

UNIT	TOTAL OPERATING WEIGHT - AL. FIN		TOTAL OPERATING WEIGHT - CU. FIN	
	LBS.	KG.	LBS.	KG.
30RA030-60Hz	1699	771	1924	873

DATE	SUPERCEDES			REV
03/26/01	3/12/01	30RA030 AQUASNAP CHILLER	30RA500281	3.0

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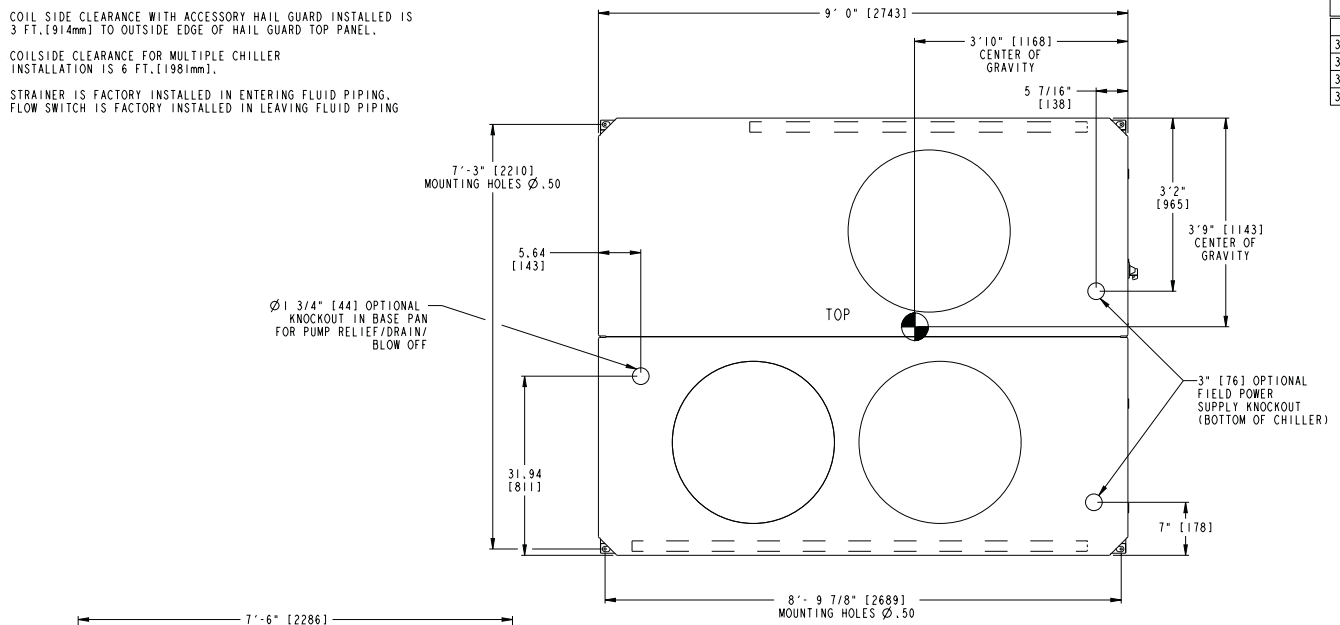
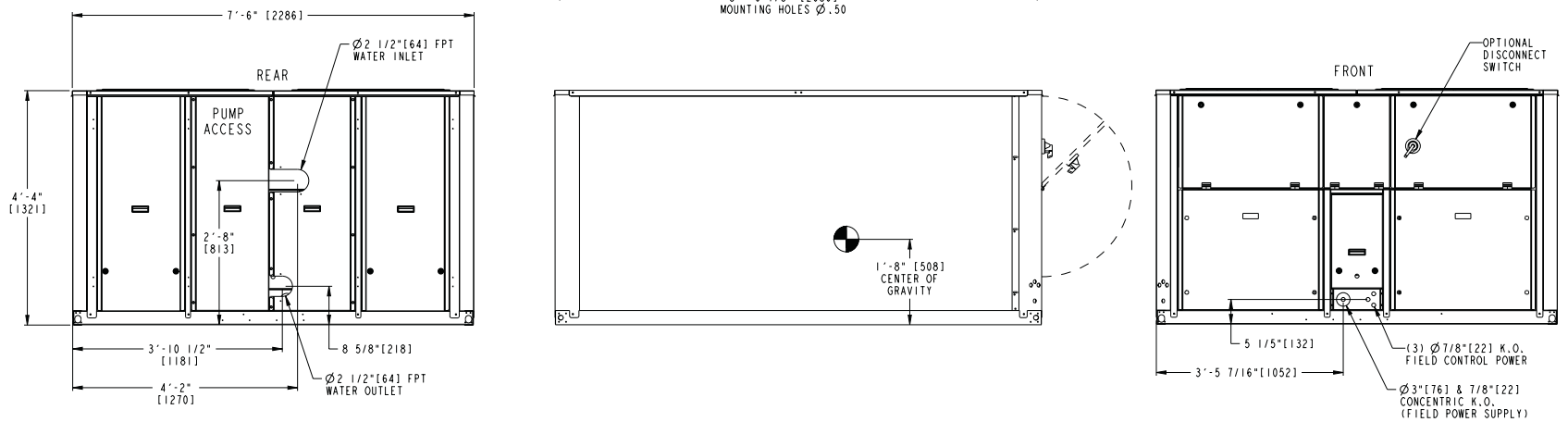
UNIT	TOTAL OPERATING WEIGHT - AL.FIN		TOTAL OPERATING WEIGHT - CU.FIN	
	LBS.	KG.	LBS.	KG.
30RA032-50Hz	2828	1283	3208	1455
30RA035-60Hz	2833	1285	3213	1458
30RA035-50Hz	2940	1334	3320	1506
30RA040-60Hz	2900	1315	3280	1488


9' 0" [2743]
3'10" [1168] CENTER OF GRAVITY
5 7/16" [138]
7'-3" [2210] MOUNTING HOLES Ø.50
3'2" [965]
3'9" [1143] CENTER OF GRAVITY
5.64 [143]
Ø1 3/4" [44] OPTIONAL KNOCKOUT IN BASE PAN FOR PUMP RELIEF/DRAIN/ BLOW OFF
TOP
3" [76] OPTIONAL FIELD POWER SUPPLY KNOCKOUT (BOTTOM OF CHILLER)
31.94 [811]
7" [178]
8'- 9 7/8" [2689] MOUNTING HOLES Ø.50



DATE	SUPERCEDES		
04/25/01	3/25/01	30RA 032-040 AQUASNAP CHILLER	30RA500645	REV 3.0

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

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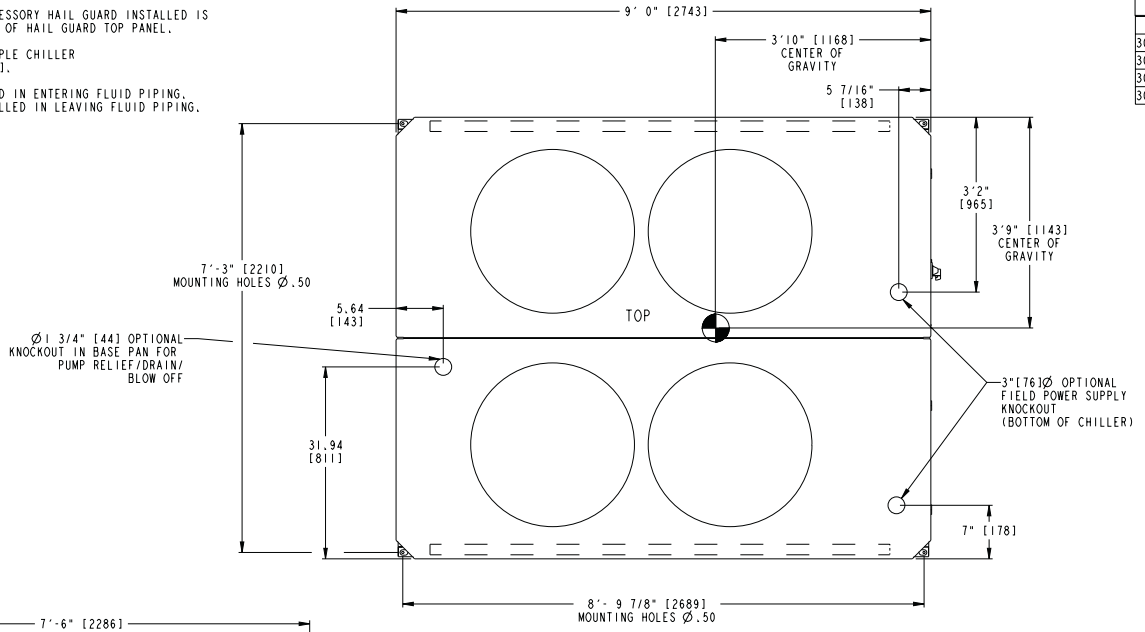
UNIT	TOTAL OPERATING WEIGHT - AL.FIN		TOTAL OPERATING WEIGHT - CU.FIN	
	LBS.	KG.	LBS.	KG.
30RA042-50Hz	3268	1483	3648	1655
30RA045-60Hz	3202	1452	3583	1625
30RA045-50Hz	3389	1537	3840	1742
30RA050-60Hz	3295	1495	3675	1667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7'-3" [2210] MOUNTING HOLES Ø.50
5.64 [143]
TOP
Ø1 3/4" [44] OPTIONAL KNOCKOUT IN BASE PAN FOR PUMP RELIEF/DRAIN/ BLOW OFF
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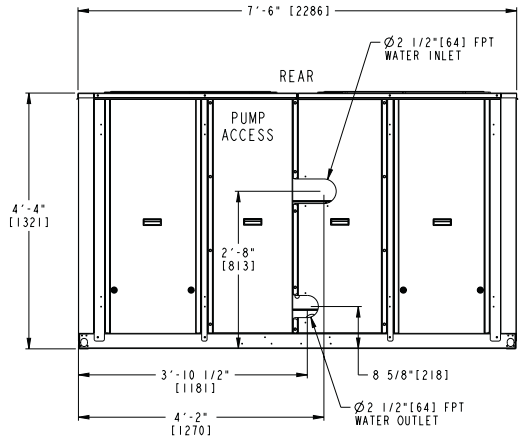

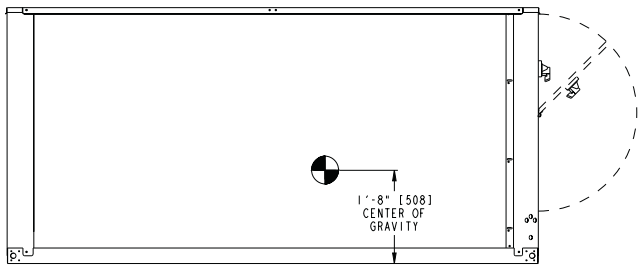

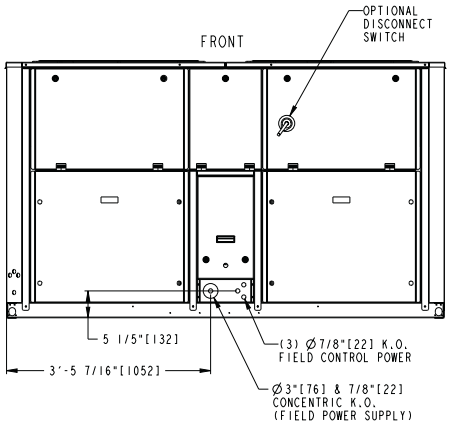

DATE	SUPERCEDES		
03/26/01	3/22/01	30RA 042-050 AQUASNAP CHILLER	30RA500644	REV 3.0

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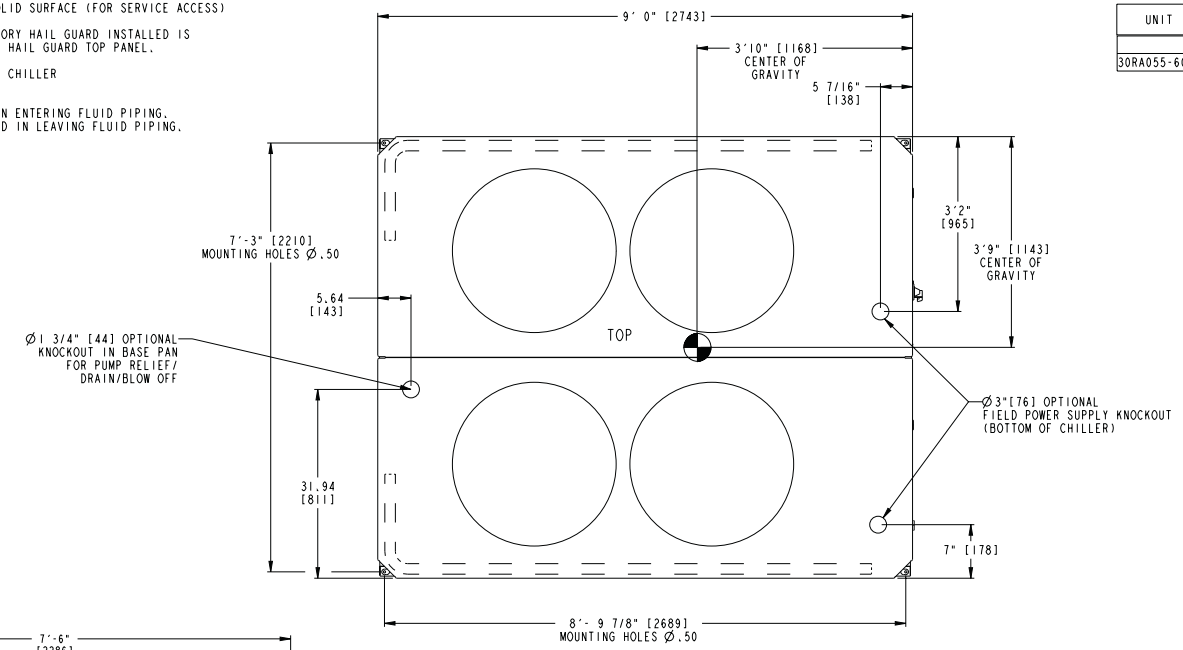
UNIT	TOTAL OPERATING WEIGHT - AL.FIN		TOTAL OPERATING WEIGHT - CU.FIN	
	LBS.	KG.	LBS.	KG.
30RA055-60Hz	3495	1585	3946	1790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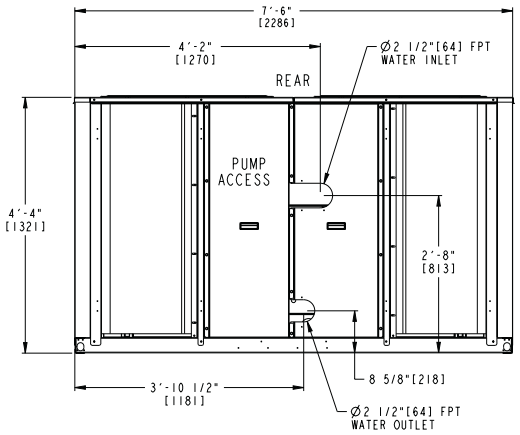
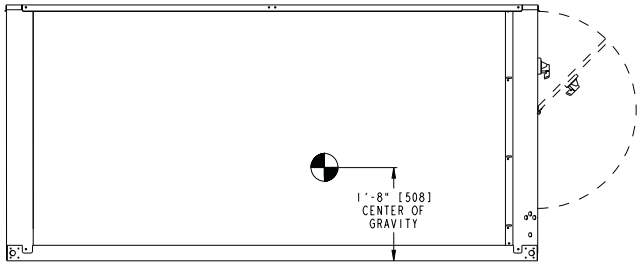
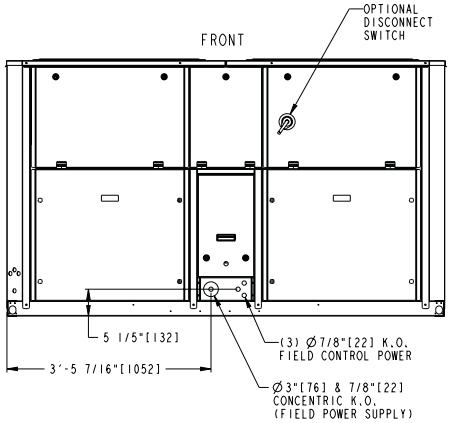






DATE	SUPERCEDES	30RA 055 AQUASNAP CHILLER	30RA500643	REV
03/26/01	3/22/01			3.0

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

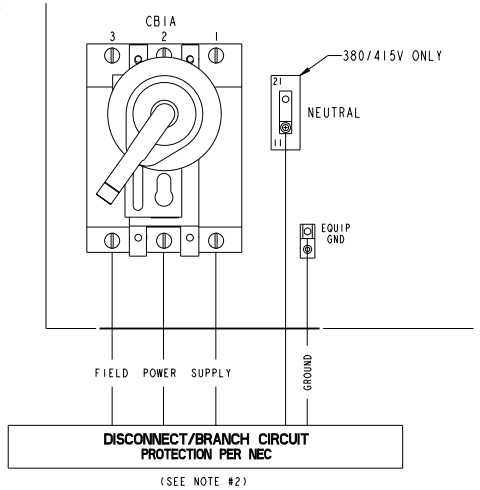
FIELD WIRING DIAGRAM

NOTES:

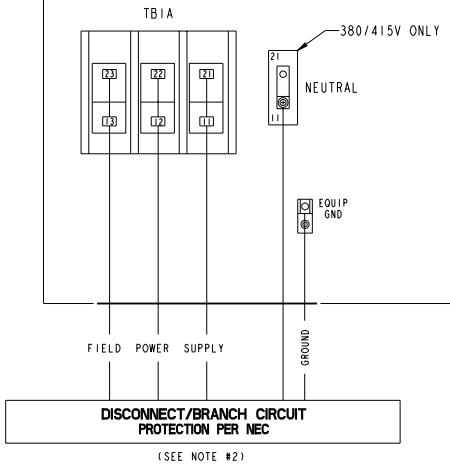
1. FACTORY WIRING IS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC). FIELD MODIFICATIONS OR ADDITIONS MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
2. WIRING FOR MAIN FIELD SUPPLY MUST BE RATED 75C MINIMUM. USE COPPER FOR ALL UNITS.
   MAXIMUM INCOMING WIRE SIZE FOR THE TERMINAL BLOCK IS 2/0.
   MAXIMUM INCOMING WIRE SIZE FOR 100 AMP NON-FUSED DISCONNECT IS 1/0.
   MAXIMUM INCOMING WIRE SIZE FOR 150 AMP NON-FUSED DISCONNECT IS 2/0.
3. TERMINALS 9 AND 10 OF TB5 ARE FOR FIELD EXTERNAL CONNECTIONS FOR REMOTE ON-OFF. THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
4. TERMINALS 1 AND 2 OF TB5 ARE CONNECTED TO THE FACTORY INSTALLED CHILLED WATER FLOW SWITCH (CWFS). TO ADD CHILLED WATER PUMP INTERLOCK CONTACTS, REMOVE THE ORANGE HARNESS WIRE FROM TB5-1 AND WIRE CONTACTS IN SERIES AS SHOWN. THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
5. TERMINALS 11 AND 13 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP1 (CWP1) STARTER. TERMINALS 13 AND 15 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP2 (CWP2) STARTER. THE MAXIMUM LOAD ALLOWED FOR THE CHILLED WATER PUMP RELAY IS 5 VA SEALED, 10 VA INRUSH AT 24V. FIELD POWER SUPPLY IS NOT REQUIRED.
6. TERMINALS 12 AND 13 OF TB5 ARE FOR A ALARM RELAY. THE MAXIMUM LOAD ALLOWED FOR THE ALARM RELAY IS 5 VA SEALED, 10 VA INRUSH AT 24V. FIELD POWER SUPPLY IS NOT REQUIRED.
7. MAKE APPROPRIATE CONNECTIONS TO TB6 AS SHOWN FOR ENERGY MANAGEMENT BOARD OPTIONS. THE CONTACTS FOR DEMAND LIMIT AND ICE DONE OPTIONS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.

LEGEND:

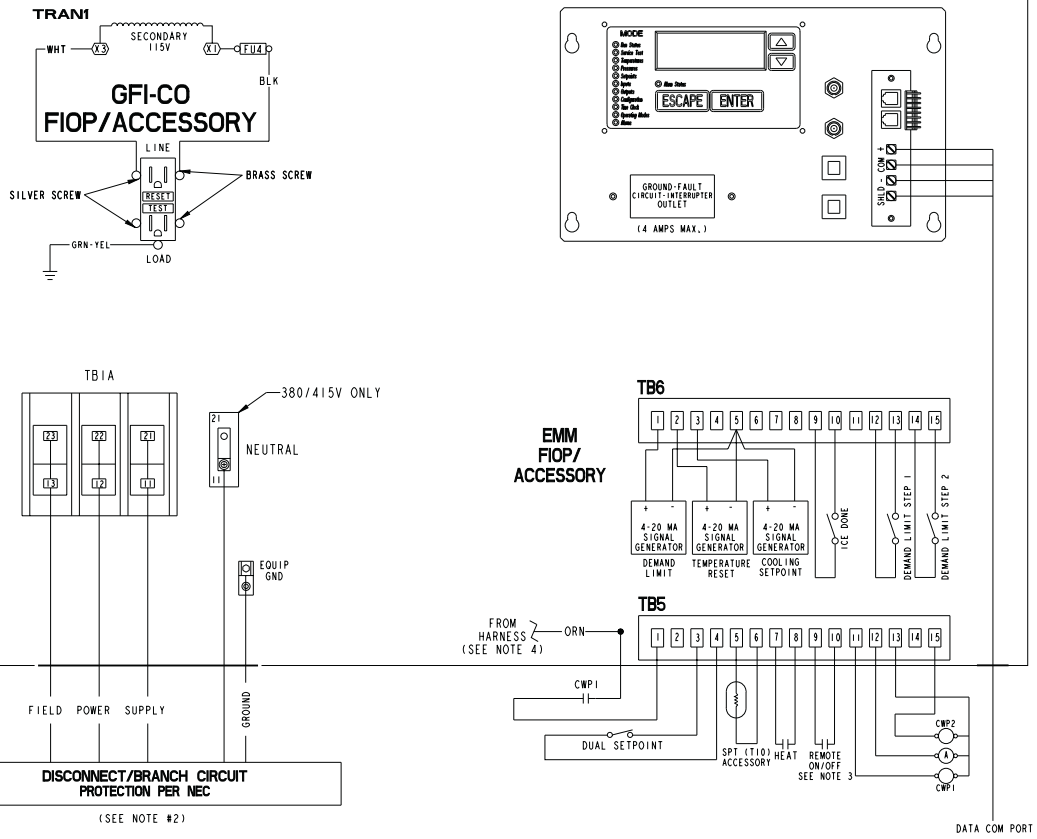
A - ALARM
CWP1 - CHILLED WATER PUMP INTERLOCK
CWP - CHILLED WATER PUMP
EMM - ENERGY MANAGEMENT
SPT - SPACE TEMPERATURE
TB - TERMINAL BLOCK
——— FIELD POWER WIRING
——— FIELD CONTROL WIRING
——— FACTORY INSTALLED WIRING



NON-FUSED DISCONNECT POWER



STANDARD POWER



DATE	SUPERCEDES			REV
04/26/01	03/26/01	30RA010-030 AIR COOLED "AQUA SNAP" CHILLER	30RA500786	2.0

UNITED TECHNOLOGIES CARRIER P.O. BOX 4808 SYRACUSE, NY 13221

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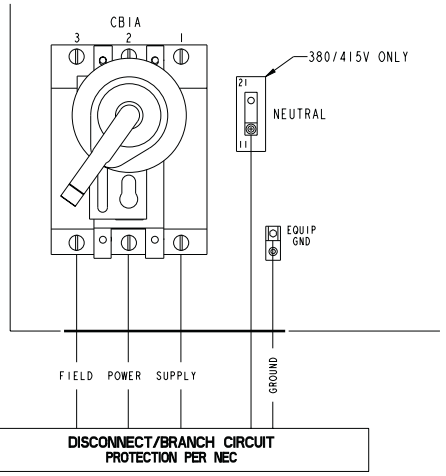
FIELD WIRING DIAGRAM

NOTES:

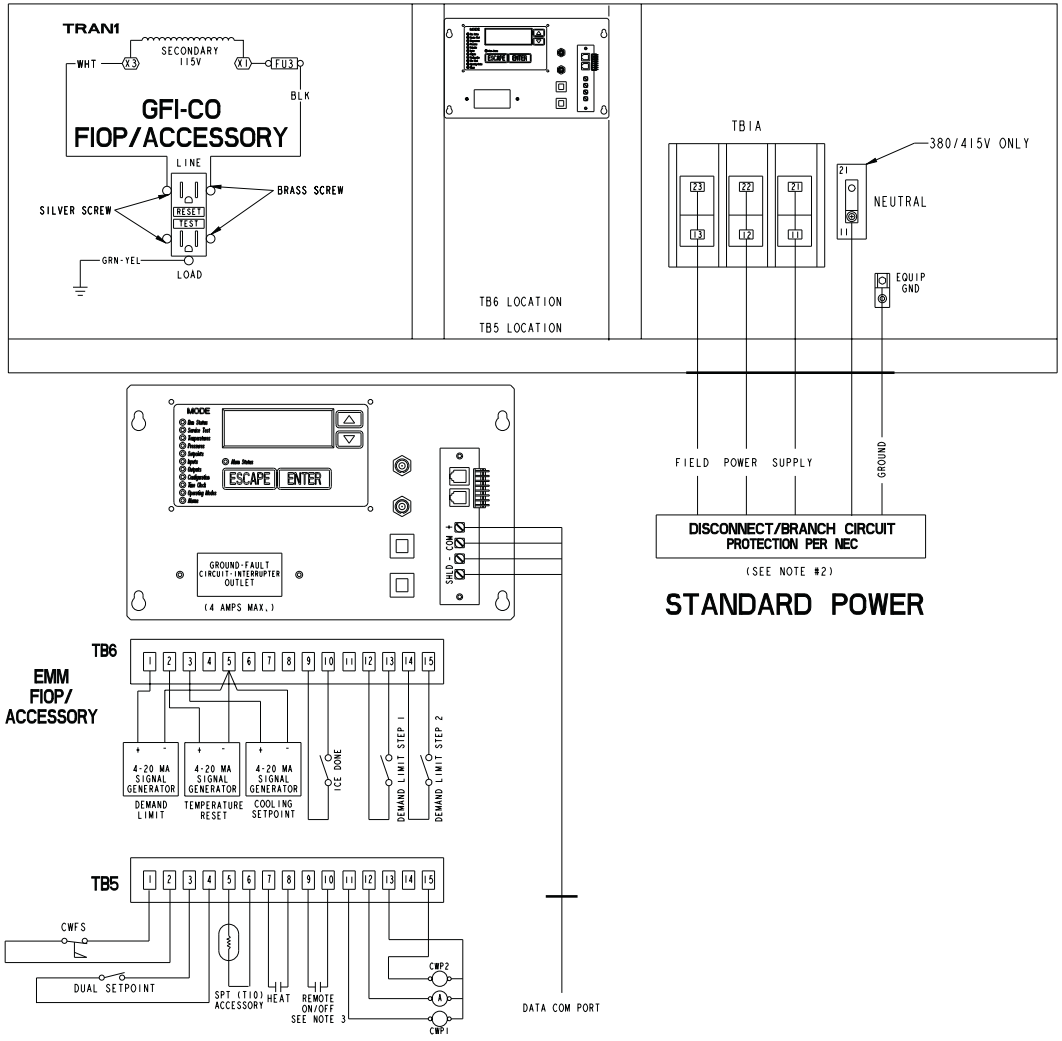
1. FACTORY WIRING IS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC). FIELD MODIFICATIONS OR ADDITIONS MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
2. WIRING FOR MAIN FIELD SUPPLY MUST BE RATED 75C MINIMUM. USE COPPER FOR ALL UNITS.
   MAXIMUM INCOMING WIRE SIZE FOR THE TERMINAL BLOCK IS 2/0 FOR 380,380/415,460 AND 575V MODELS. ALL OTHER VOLTAGES HAVE 400 KCMIL MAXIMUM CONNECTIONS.
   MAXIMUM INCOMING WIRE SIZE FOR 100 AMP NON-FUSED DISCONNECT IS 1/0.
   MAXIMUM INCOMING WIRE SIZE FOR 150 AMP NON-FUSED DISCONNECT IS 2/0.
   MAXIMUM INCOMING WIRE SIZE FOR 250 AMP NON-FUSED DISCONNECT IS 350 KCMIL.
3. TERMINALS 9 AND 10 OF TB5 ARE FOR FIELD EXTERNAL CONNECTIONS FOR REMOTE ON-OFF. THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
4. TERMINALS 1 AND 2 OF TB5 ARE FOR CHILLED WATER FLOW SWITCH (CWFS). THE CONTACTS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.
5. TERMINALS 11 AND 13 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP1 (CWP1) STARTER. TERMINALS 13 AND 15 OF TB5 ARE FOR CONTROL OF CHILLED WATER PUMP2 (CWP2) STARTER. THE MAXIMUM LOAD ALLOWED FOR THE CHILLED WATER PUMP RELAY IS 75 VA SEALED, 360 VA INRUSH AT 115V. FIELD POWER SUPPLY IS NOT REQUIRED.
6. TERMINALS 12 AND 13 OF TB5 ARE FOR A ALARM RELAY. THE MAXIMUM LOAD ALLOWED FOR THE ALARM RELAY IS 75 VA SEALED, 360 VA INRUSH AT 115V. FIELD POWER SUPPLY IS NOT REQUIRED.
7. MAKE APPROPRIATE CONNECTIONS TO TB6 AS SHOWN FOR ENERGY MANAGEMENT BOARD OPTIONS. THE CONTACTS FOR DEMAND LIMIT AND ICE DONE OPTIONS MUST BE RATED FOR DRY CIRCUIT APPLICATION CAPABLE OF HANDLING A 24VAC LOAD UP TO 50 MA.

LEGEND:

A - ALARM
CWFS- CHILLED WATER FLOW SWITCH
CWP - CHILLED WATER PUMP
EMM - ENERGY MANAGEMENT
SPT - SUCTION PRESSURE TRANSDUCER
TB - TERMINAL BLOCK
——— FIELD POWER WIRING
——— FIELD CONTROL WIRING
——— FACTORY INSTALLED WIRING



NON-FUSED DISCONNECT POWER



STANDARD POWER

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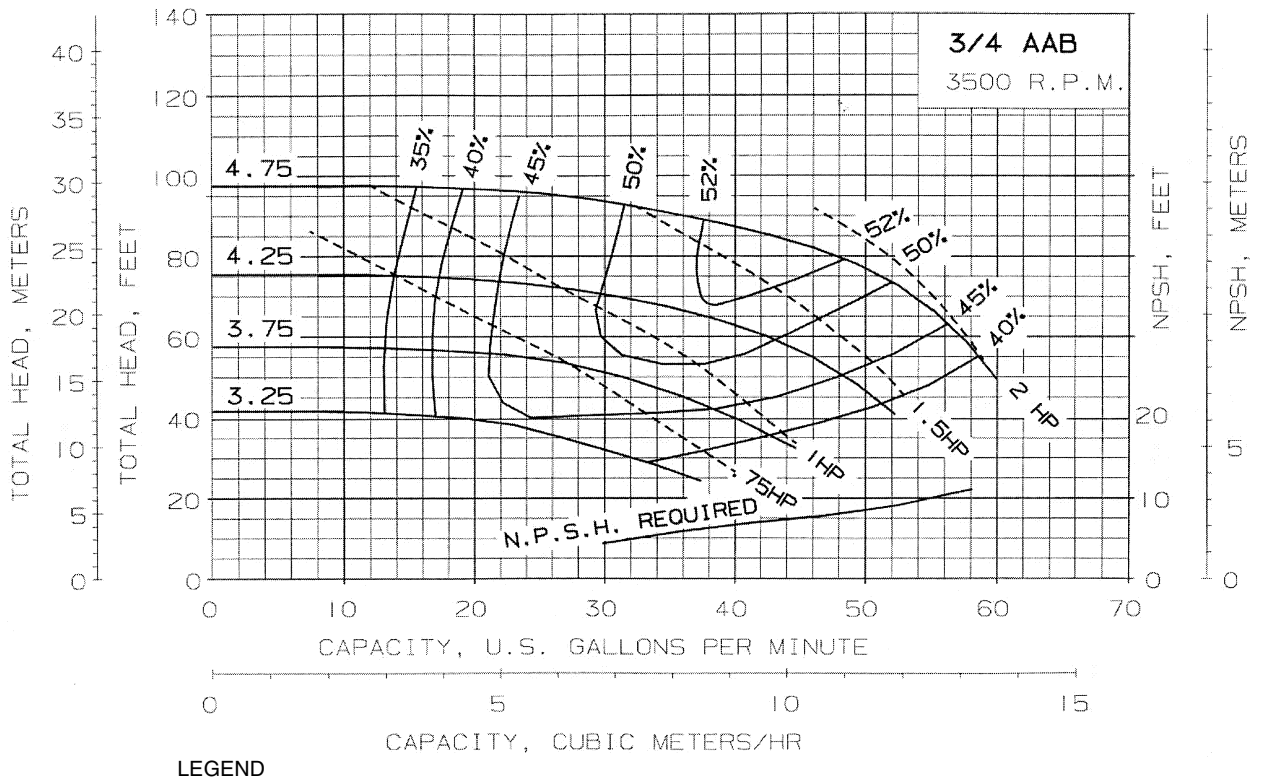
DATE	SUPERCEDES			REV
04/26/01	03/23/01	30RA032-055 AIR COOLED "AQUA SNAP" CHILLER	30RA500835	2.0

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

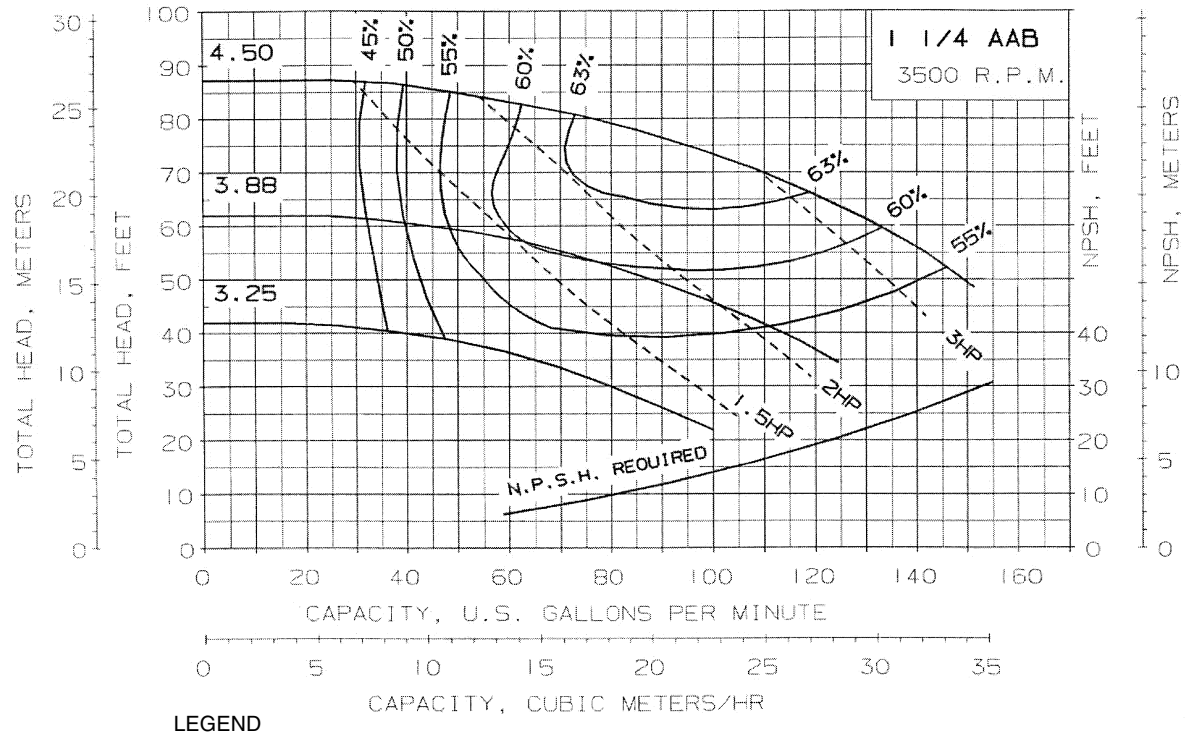
PUMP CURVES FOR HYDRONIC PACKAGE OPTIONS A, C, F AND H, 1.5-2.0 Hp



LEGEND

NPSH — Nominal Required Head Pressure
3/4 AAB — Manufacturer's Code

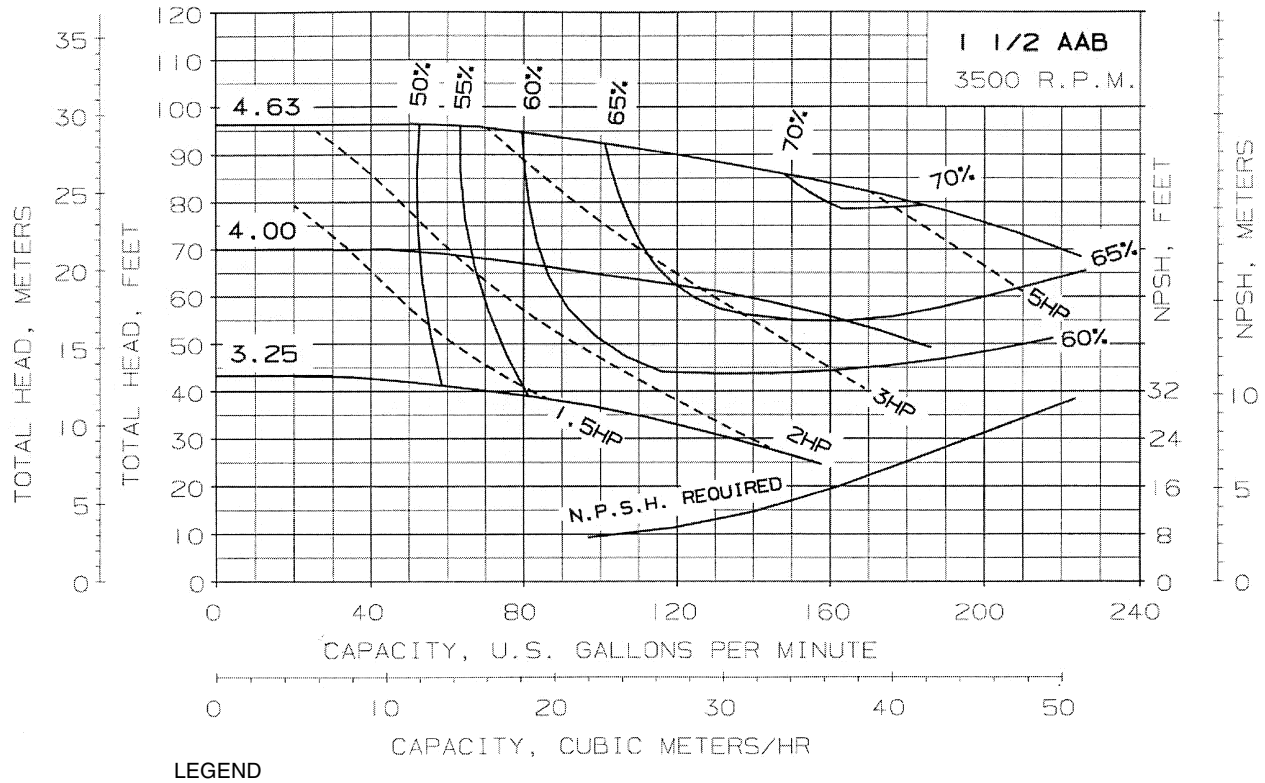
PUMP CURVES FOR HYDRONIC PACKAGE OPTIONS B, D, G and J, 2-3 Hp



LEGEND

NPSH — Nominal Required Head Pressure
1 1/4 AAB — Manufacturer's Code

PUMP CURVES FOR HYDRONIC PACKAGE OPTIONS E AND K, 5 Hp



LEGEND

NPSH — Nominal Required Head Pressure
1½ AAB — Manufacturer's Code